

Digital chlorine dioxide sensor Memosens CCS50E

Memosens sensor for drinking water, process water and multi-industry utilities



Benefits:

- Wide measuring range: From trace measurement up to chlorine dioxide concentrations of 200 mg/l.
- Easy installation: sensor can be installed in the modular Flowfit CYA27 assembly or in immersion assemblies and faster polarization time with the new Memosens 2.0 technology.
- Fast response time provides accurate process view and enables prompt reaction to process changes as well as efficient process control.
- Increased process safety: precise and long-term stable measurement ensures consistent process monitoring and allows for lowest disinfectant concentration.
- More process up-time thanks to fast sensor exchange: precalibrate the sensor in your lab and then swap it into your process with plug & play.
- Easy combination with other relevant parameters of liquid analysis thanks to connection to the Liquiline multiparameter transmitter.

More information and current pricing:

www.endress.com/CCS50E

Specs at a glance

- **Measuring range** Trace: 0 to 5 mg/l ClO₂ Standard: 0 to 20 mg/l ClO₂ High: 0 to 200 mg/l ClO₂
- **Process temperature** 0 to 55 °C , non-freezing (32 to 130 °F)
- **Process pressure** Max. 2 bar abs (Max. 29 psi abs)

Field of application: Easy chlorine dioxide measurement with the robust, low maintenance sensor Memosens CCS50E. The sensor provides fast and stable measured values in utilities, drinking water and process water. It is used to ensure efficient disinfection for highest water quality and safety, and to avoid overdosing of chlorine dioxide. Furthermore, the absence of ClO₂ in beverage plants and reverse osmosis can be

monitored. Benefit from maximum data integrity and simple operation with the Memosens 2.0 technology.

Features and specifications

Disinfection

Measuring principle

Chlorine dioxide

Application

Adequate disinfection in drinking water, preventing of pathogen formation in cooling water systems, water used to wash pre-packaged vegetables, ensures the absence of chlorine dioxide in beverage systems

Characteristic

Amperometric measurement of dissolved chlorine dioxide

Measuring range

Trace: 0 to 5 mg/l ClO₂

Standard: 0 to 20 mg/l ClO₂

High: 0 to 200 mg/l ClO₂

Measuring principle

Closed, membrane covered measuring cell

Reduction of chlordioxide (ClO₂) to chloride at the cathode with appr. 120mV

Design

Closed amperometric 2-electrode measuring cell with PVDF membrane

Material

Sensor shaft: POM

Membrane: PVDF

Membrane cap: PVDF

Dimension

Diameter: 25 mm (0.98 inch)

Length: 161 mm (6.34 inch)

Disinfection

Process temperature

0 to 55 °C , non-freezing
(32 to 130 °F)

Process pressure

Max. 2 bar abs
(Max. 29 psi abs)

Temperature sensor

10k NTC integrated (Memosens)

Connection

Inductive, digital connection head with Memosens

More information www.endress.com/CCS50E